GER DE COVERLY M. GONG

250.00 net
for sale

E. Ray Lankester

from

Edmund Gosse

In memory of the Author

April 10. 1915

REFERENDA

FOR

JAMAICA.

Rough Sketches of Plants & Animals
to help in Identification.

by

Philip Henry Gosse

Bentish-town.
1844.

MSS
001918 B
SCNHRB

Figures of Orchideæ

Genera of — 50.°

N. Indian 50.°

Mr. Sutherland's

Heathood's notes.

Receipts, &c

Figs. of Hymenoptera.

DSI

1. Plantaginis cuneifolia. Host. vol. sic. Fol. p[ro]

XXI. Pl. racemiflora.
Host. vol. cit.
Pube gor.

35 Ochroria graminifolia. nat. dijs.
Pal. Syst. Gr.

37 Spreckelinia linearifolia 37 Melis ophioglossoides
Pl. nat. sijs. nat. s.

64. Melis micrandra, mey.
Kleine bloemige
kandelaarbloem.

81 Cotia. Schreberiana.
* nat. sijs.
cotiele.

*

241. Epidendrum Labiosum. H. n. d. Flo. expedition.

237. Epidendrum Fragrans. H. n. d.

317 Epiden. umbellatum H.n. d.

242. Epidend. Cochleatum. H. n. d.

865. Epid. foliosum. H. n.

Oncid. Pebollieta, or
O. Longifolium.
(col. from descr.n)

Oncid. albissimum.
(col.d from descr:)

Epid. bifidum.
(veins purple?)
uncoloured.

Epid. nocturnum
fl. nat. sizo.
(uncoloured)

310 Epidendrum
conspicatum
—
Ho. nat. size.

296. Epidendrum ciliare.
Ho. nat. size

345. Epidendrum radicans.
Ho. n. I. Large white.
Odoriferous night.
October.

346 Oncidium pectinatum
Pl. rar. Jac.

422 Cattleya dolosiana.
nat. in Mexico ubi. Jos-
tes jecit.

359
Liparis
cuspidata
—
Nat. size.

362. Epiden.
crassifolium —
H. n. s.

326 Epiden. fuscatum
all n. s. yellow
pl. but diff.t
branches.

382
Arachnis
linearis
—
Ho. n. s.

310
Epid. tenuosum
Ht. nat. size —
H. sized as here.

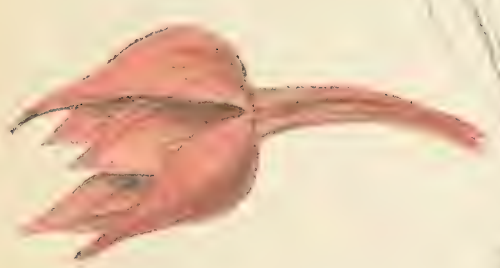
437

364. Epid.
verrucosum.
all. n. s.

Broughtonia
sanguinea.
all n. s. very
dk. crimson

440 Liliia
florida.
H. n. s. sub-
terrestrial.
2 ft. high.

16 Comparettia coccinea.
Fl. slightly too large
very beautiful
warp.



732
Cyrtopodium Andersonii
N.S. terrest.

745 Cyrtopera Mackayii
Fl. n.s. five spike.
terrest.

Brassavola nodosa.
(col.d from descr.n)

Lepanthes tridentata (a
plant nat. size).
(col.d frm. descr.n)

493

Maxillaria alba
Fl. ✱ nly. n. s.
Pl. viridi d.

503

Maxillaria pallidiflora
Fl. viol. fuge

517

Oncidium
Barkeri.
Fl. n. s.

516

Maxillaria
decolor.
Fl. n. s.

514 Maxillaria
Barringtonia.
Fl. n. s.

605 Catasetum tridentatum
H. n. c. upside down.

665. Corynanthes.

767 Zygopetalum ? sp. n.

764 Sonopsis utriculariaeoides
Plant nat. size.

865. Fernandezia elegans.
all n. s.

† *

862
Specidium sp.
Isabelia sp.
all nat. s.

* Hooker's figure
† Loddiges' d°

1150. Epidendrum graminifolium
Hook nat. syn.

531
Oncid. tenuicaule
Ho. n. s.

Oncid. tetrapetalum.
(from description.) very small

897. Oncidium maculatum
Ho. mss. syn.

Orchideæ

I. One anther

A. Pollen masses waxy

a. No caudicula, nor separable stigmatic gland. Malaxideæ

b. A distinct caudicula, but no separable stigmatic gland. Epidendreæ.

c. A distinct caudicula united to a deciduous stigm.c gland. Vandeæ.

B. Pollen powdery, granular, or sectile.

a. Anther terminal, erect. Ophrydeæ

b. Anther terminal, opercular. Arethuseæ

c. Anther dorsal. Neottieæ.

II. Two anthers. Cypripedeæ.

Tribe I. Malaxideæ.

Section I. Pleurothallideæ.

Column erect, slightly produced at the base

a. Pollen masses two.

Pleurothallis. Lip free: lateral sepals joined at base; column not winged; anther membranaceous at apex.

Octomeria. Lip jointed with an unguiform process, to which (at the edges) the anterior sepals adhere. Pollen masses 8. Perianth quite smooth.

Stelis. Lip of the same form as the inner dwarf vaulted sepals. Three outer sepals united at base. Pollen masses two.

Specklinia. As Stelis; but lat. sepals saccated at base.

Coelia. Pollen masses 4. Lat. sepals free at base; (not united) sepals & petals nearly equal. Anther two-lobed.

Section II. Dendrobieæ.

Column recumbent in the ovary; very much produced at the base.

Polystachia. Sepals free. Lip sessile, hooded; behind. Flowers fleshy. Alabastra (bud.) triangular.

Tribe II. Epidendreæ

Caudicula not transparent, & connected with the stigma by a gland, (as Vandeæ) but powdery, often turned back upon the face of the pollinia.

Pollinia 2.

Sepals & petals very spreading: lip semi-lunate.
Collabium.

Pollinia 4.

Lip united at base with column
Column not spurred, lengthened. Caudiculæ 4.
Epidendrum.
Column two horned, dwarfed - caudiculæ 2; lip adhering only at base. Pinema.
Column not spurred - caudic.æ 2; lip united to the column with membranaceous, inflected folds. Plocoglottis.
Lip free, (or nearly)
Produced into a spur at base adhering to ovary.
Broughtonia.
Not spurred.
twisted around the column
In front. Sepals petaloid flat. Cattleya
Behind. Sepals herbaceous, converging.
Encyclia.

flat

Flat.

Straight. Sepals free. — Isochilus.

Broken in middle. Lateral sepals united into a false spur. — Ponera.

Pollinia 8

Lip spurred (spur free from the ovary).

Sub-entire, (slightly 3-lobed) anther 8-celled. — Phajus.

Very 3-lobed.

Behind. Anther 2 celled. — Cytheris.

Front. Anth. 6-8 celled. — Ania.

Lip not spurred, sometimes saccate at base

Very entire

Twisted around column

Unlike the sepals — Graffavola.

Like the sepals — Tainia.

Very spreading, convex. — Calloostylis.

Three-lobed.

Sessile.

Middle lobe unguiculate

base tubercled. — Spathoglottis

base naked. Lip produced at base into a spur adhering to the ovary. — Tetramicra.

Middle lobe sessile.

Lat. sepals even at base

lip behind — Lelia

lip front —

anther 8 celled. Lip jointed with column. — Bletia.

anther 4 celled. Lip twisted round column — Arundina.

Unguiculate

saccate at base — Apatura. Ipsea.

not saccate at base. Trichotosia.

Tribe III. Vandeæ.

Caudicula transparent; separating after impregnation, along with the gland of the stigma, & adhering strictly to the pollen masses.

—

Pollinia 2, entire, or furrowed; or deeply two-lobed; or 8-

—

§1. Caudiculæ 2.

—

Lateral sepals adhering together at base into a spurious spur- Podochilus

Sepals free, not produced at base.

Petals lobed. Lip 4-partid- Cryptopus.

Petals spatulate, unguiculate.

Sessile.

Lip with produced claw, jointed to column

Claw of column spurred- Aeranthes

Claw of column not spurred. Bifrenaria

Lip sessile

Spurred Aonia

Saccate at base

entire Diplodium

3-lobed Tetrapeltis

Plane at base.

3-lobed, front-glands 2- Chelonanthera

undivided, behind-glands 1. Sunipia

§2. Caudiculæ 1.

—

* Spurred; horned; or saccate.

—

1 Lip very connate with column

Sepals bent back, much less than the spread, wing-shaped petals- Lissochilus

Sepals & petals subequal.

Lateral sepals adhering to lip. Microsaccus

Sepals free

Lip horned on each margin - Trichoglottis

Lip mutic, 2-lobed. Col. winged. Acanthoglossum

2. Lip sessile, free; or slightly connate with column.

Lateral sepals connate; set under lip - Rodriguezia

Sepals free -

A. Lip only saccate at base; (or if slightly horned very fleshy, equal to the sepals, or greater).

1. continuous with column, entire, or slightly lobed,

a. even. Flower flat, fleshy. Valves of anther persistent.

Spur of lip single - Vanda

Spurs " - two. - Diploceutrum

b. hooded - Flower shut, membran.° Valves of anth. deciduous - Geodorum

2. parallel with col. bent back in middle. Flower shut. - Ionopsis

3. jointed to col. 3-lobed - much shorter than the difform linear sepals. Renanthera.

B. Lip spurred

Spur bellied (?) 1 celled, with the border entire, or obsolete, or slightly lobed.

Throat open -

empty

All sep. free. Saccolabium

Lat. sep. connate at base.

Taeniophyllum

furnished with a dorsal tooth inside.

Cleisostoma

Throat shut, margin being bent in, 2-plaited - Ceratochilus

Spur bellied; 1-celled; border lobed

Echioglossum.

2-celled - Sarcanthus.

Spur horned

Col. bi-fringed in front - Schoenorchis

Col. mutic.

Lip undivided; far wider than peta.

Flower flat. Angraecum.

Lip lobed (often hooded)

Poll. 2. Epiphyte. Aceoclades

" 4. Terrest. Tipularia.

3. Lip free at base (often widely) affixed to the produced col

Sepals & petals equally spread. Aerides

Sep. & pet. "secunda." (one sided.)

Lip funnel-shaped at base, hooded, undivided.

Calcandra

Lip horned at base; or shortly spurred, lobed

Eulophia.

** Not spurred; i.e. with no sac nor spur behind the base of lip.

1. Lip connate with column.

Lat. sep. free as to each other

adhering to the lip by base. Nanodes.

Upper one adhering to the petals by base.

Aspasia.

Lat. sep. connate

Petals connate with upper sepal. Trizeuxis.

Petal. free. Col. 2-horned in front. Aeriopsis.

All sepals free (converging) — Ornithidium

2. Lip free, sessile, or subsessile

All sepals connate. — Masdevallia

Lat. sepals more or less connate

Flower globose. Lip 3-lobed, jointed in midd

Peristeria.

Flower spreading.

Lat. sep.s oblique, bringing back a spur

Alamania.

Lat. sep. sub-equilateral

Anther dorsal. Col. apterous

Notylia.

Anther terminal

Col. 2-eared — 1. Oncidium

Col. apterous

Lip, 1-chambered at apex, very connate with sepals. Camarotis.

Lip saccate at apex, almost free from sepals. Microjera

All sepals free

Lip conformed to petals — Trichocerus

Lip diverse from petals.

Col. winged or eared.

eared at apex — Macradenia

eared on each side

Pollinia hollow — 2. Oncidium

— " — solid — Fernandezia

petaloid —

Lip bellied — Calypso

Lip plane — Pachyphyllum

winged-margined towards apex

Lip continuous with a tubercled claw — Cyrtochilum

Lip constricted in middle, under-lip hollow — Stanhopea

Col. apterous

Poll. 4, distinct

Flowers open — Beak very long. Ornithocephalus

Flowers cylindrical. Cremastra.

Poll. 2, solid, cleft, or 2parted

Col. doubly fringed

Lip bellied, fleshy, posterior Catasetum

Lip flat, petaloid, anterior. Myanthus.

Col. mutic —

Flower converging.

Lip hooded, membr. continuous with
column. 2. Geodorum

Lip free, fleshy
conformed to petals. Dicrypta
diverse from pet. Adenoncos.

Flower flattened -
Col. taper-1-horned. Telipogon
Col. semi-taper, mutic. [lum.
Poll. far distant. Grammatophyl-
Poll. contiguous at base.
Lip flat, entire, with 1 callus
Phymatidium
Lip flat, entire, no callus
Brassia -
Lip hooded
involving the col. Sobralia
parallel with col., anterior
Poll. 2. cleft behind.
Cymbidium
Poll. 2, hollow, convolute,
lip saccate at base.
Acropera.
Lip bellied, posterior, undivided
Monachanthus

3. Lip free, jointed with the produced base of col.; or very much clawed.
Lat. sep.s produced at base; connate with col. or with each other
All connate ——— Cryptoglottis.
Upper one free
1. Lip hooded, or bellied
Sepals one sided - Cyrtopera -
Sepals equally spreading.
a. Lip jointed with column
Poll. incumbent 88. Maxillaria.
Poll. collateral 00 00 - Eucnemis

b. Lip continuous with col.

Sarcochilus.

2. Lip flat, or only grooved very spreading

Poll. 4; petals narrower than sepals.

Psittacoglossum

Poll. 2; pet. falcate, wider than sep.

Cycnoches

lying on column

Col. 2 horned — Epidendrum

Col. mutic

Lip hastate, much clawed. Dorilis

Lip sessile.

2-lobed — Chiloschista.

sub-3-lobed — Govenia.

Lateral ones free

upper Spetals connate with col. Gongora.

upper free.

Stigma vertical. anth. dorsal. Cirrhaea.

Stigma terminal. anth. termin.

Petals far larger than sepals. Phalaenopsis

Pet. nearly equal to sepals.

Clinandrium (the part of col. where anth. lies) hooded, including the anther.

Cryptarrhena.

Clin. immarginate

Lip hooded, 2-lobed; claw naked

Angulo a.

Lip helmet-form; claw included in a cup-shaped appendix. Coryanthes.

Lip flat.

Flower shut. lip triangular

Dichaea

Flower flat.

lip undivided with a spreading lamina, crested at base.

Flower evenly open

Odontoglossum

Flower one-sided

Zygopetalum.

Lip 3-parted; continuous with the produced base of column.

Cyrtopodium

Lip fan-form; col. eared.

Cuitlauzina.

Pollinia 8.-

Labellum connate with col.

Sep. & pet. unequal - Lip constricted in middle

Agrostophyllum

Sep & pet. subequal - lip continuous

Calanthe.

Lip free

Spurred - ——————— Limatodes

not spurred; or, slightly saccate

Sepals connate into a tube - Cryptochilus.

Sepals connate only at base

Col. produced at base into a claw.

Ceratostylis.

Col. parallel with lip - Thelasis -

Sepals quite free; or very slightly connate.

Col. produced at base

Flower tubulate, bellied constricted at throat - Acanthophippium.

Flower not tubulate.

Lip not spurred - Appendicula

" " spurred - Arpophyllum.

Col. not produced at base - Glomera. *

---

* N.B. Red. New World.
Blue. Old world.

Cetacea Heterodonta.

A. No dorsal fin

Beluga. Head globe-shaped

Delphinapterus. Slender beak

B. One dorsal fin.

Globiceps. Head globe-shaped.

Phocæna. Short snout, uniformly rounded.

Delphinus. A snout, & a distinct beak.

Delphinorhynchus. A much longer snout & beak: no furrow between them.

Zoosoo. Long beak; no snout.

Inia. Long beak, bristled: incisor & molar teeth.

C. Two dorsal fins. Oxyptenus. unfigured.

ne. St.
ely at torrents.
and
ands of trees
trees in tem-
very rare),
ees.
trees in
r.
s in the tem
rocks.
accas. trees
ist-woods.
. Trees in

dry C. punctatum. Hayti.
cult. Cyrtopera Woodfordii. Trinidad. Martinique
cult. Notylia punctata. Trinidad.
cult. Sonopsis utriculariodes. Jamaica. In the driest fields. Trinidad. Mexico. On Coffee trees.

Cetacea Heterodonta.

A. No dorsal fin

Beluga. Head globe-shaped

Delphinapterus. Slender beak

B. One dorsal fin.

Globiceps. Head globe-shaped.

Phocæna. Short snout, uniformly rounded.

Delphinus. A snout, & a distinct beak.

Delphinorhynchus. A much longer snout & beak: no furrows between them.

Zoodon. Long beak: no snout.

Inia. Long beak, bristled: incisor & molar teeth.

C. Two dorsal fins. Oxyptenus. unfigured.

West Indian Orchideæ.

cult. | *Ornithidium Coccineum*. Martinique. St. Vincent. Moist woods, chiefly at torrents.

cult. *Trizeuxis falcata*. W. Ind. Upon trees.

? *Ornithocephalus gladiatus*. Trinidad

cult? | *Maxillaria alba*. Jamaica

cult | *M.* — *Barringtonia*. Jamaica. Trunks of trees

? *M.* *palmifolia*. Jamaica. On trees in temperate parts.

cult? | *M.* *pallidiflora*. St Vincent

cult | *M.* *decolor*. Jamaica.

cult | *Dicrypta Baueri*. Jamaica?

cult | *Catasetum tridentatum*. Trinidad.

cult | *Stanhopea grandiflora*. Trinidad.

cul.? *Gongora atropurpurea*. Trinidad.

dry *Cymbidium limbatum*. Trinidad.

? *C.* *flabelliforme*. Jamaica. very rare, in the mountains, on trees.

? *C.* *subulatum*. Jamaica. On trees in the woods of the interior.

? *C.* *vestitum*. Jamaica. On trees in the temperate; also at the sides of rocks.

cult. *C.* *ochroleucum*. Trinidad.

dry *C.* *diurnum*. Bahamas. Caraccas. Trees

dry *C.* *utriculatum*. Jamaica. moist woods.

? *C.* *montanum*. Jamaica south. Trees in Blue Mountains.

cult. | *Cyrtopodium Andersonii*. W. Ind.

dry *C.* *punctatum*. Hayti.

cult. | *Cyrtopera Woodfordii*. Trinidad. Martinique

cult. *Notylia punctata*. Trinidad.

cult. | *Ionopsis utricularioides*. Jamaica. In the driest fields. Trinidad. Mexico. On Coffee trees.

cult. Rodriguezia secunda. Trinidad.

? Macradenia lutescens. Trinidad.

? Cryptarrhena lunata. Jamaica.

dry Oncidium tetrapetalum. Jamaica. Valuable.

dry O. variegatum. Jamaica. On trees esp.ly Crescentia in mountains.

cult. O. altissimum. Jamaica, &c. Trunks of trees.

cult. O. luridum. Jamaica.

cult. O. papilio. Trinidad.

dry O. triquetrum. Jamaica.

cult.? O. pulchellum. Jamaica.

dry O. Ceballata. St Lucia

cult.? Fernandezia elegans. Trinidad.

dry Dichaea echinocarpa. Jamaica south. At side of rocks & trees among mosses, in shady parts of the mountains.

dry D. latifolia. St Vincent.

dry D. muricata. Jamaica south. On mossy trunks, near ridges of mountains.

dry D. trichocarpa. Jamaica. d.o d.o

cult.? D. graminoides. Jamaica south. trees of temperate region of mountains.

dry D. glauca. Jamaica. On trees towards the summit of B. Blue. Mts Large.

cult. ? Brassia maculata. Jamaica.

cult. ? B. caudata. W. Ind.

? Acoclades funalis. Jamaica. On old trunks in the mountains. Flo. large, white.

? Angraecum filiforme. Hayti. On branches.

cult. | *Epidendrum cochleatum.* W. Ind. very common).

cult. | *E.* *fragrans.* Jamaica interior - Trunks of old trees.

? *E.* *labiatum.* Hayti. Trees; Crescentia, &c

? | *E.* *bifidum.* St Christopher. St Bartholomew St Thomas. Trees.

cult. | *E.* *ciliare.* Martinique. St Vincent.

cult. | *E.* *cuspidatum.* Dominica.

cult ? | *E.* *ramosum.* Jamaica. On trees in mountains

dry *E.* *diffusum.* Jamaica temperate. On trees.

cult. | *E.* *umbellatum.* Jamaica, &c.

cult | *E.* *fuscatum.* Jamaica -

cult ? *E.* *pallidiflorum.* St Vincent

? | *E.* *nocturnum.* Martinique - mount.s woods.

cult. | *E.* *nutans.* Jamaica west. Trees of mts

cult ? | *E.* *crassifolium* - St Vincent -

? *E.* *secundum* - Martinique - mt.s woods.

cult ? | *E.* *verrucosum.* Jamaica - Trunks.

cult ? | *E.* *patens.* Jamaica - mt.s woods.

dry *E.* *bifarium* - Jamaica south. On trunks in high mountains.

dry *E.* *rigidum* - Jamaica, &c. mt.s woods.

dry *E.* *nomeriforme* - Jamaica

? *E.* *angustifolium* - Jamaica.

cult ? | (*Dinema polybulbon* - Jamaica -

cult. | *Isochilus linearis* - Martinique - Dense woods.

dry *I.* *globosum* - Jamaica interior - Highest branches of trees -

? *I.* *teretifolium* - Jamaica south. Trees on lofty mountains -

cult. *I.* *proliferum* - Jamaica south. On old trunks among mosses; high mountains.

cult. *I.* *fusiforme*. Trinidad.

cult? Brassavola cuculiata. W. Ind.

? B. nodosa. Jamaica. In mossy on trees. Rare.

dry B. subulifolia. Nevis.

dry Cattleya Domingensis. Hayti. On trees.

cult Broughtonia sanguinea. Jamaica. Not far from shores. on old trees of Bombax, Rhizophora, Conocarpus, &c

dry Tetramicra rigida. Hayti.

cult. Bletia florida. Trinidad.

cult. B. verecunda. W. Ind.

? B. capitata. W. Ind.

cult. Pleurothallis ruscifolia. Jamaica. On trees.

non P. fibuloides. Jamaica int.r. trees.

cult. P. racemiflora. Jamaica South. Trees on highest mountains.

dry. P. laxa. Jamaica s. Branches, highest m.ns

dry P. alpestris. Jamaica. s. do do

dry Specklinia cerulariodes. Jamaica. On ancient dense thick on mountains.

dry S. lanceola. Jamaica s. Trees on highest m.s

dry S. emarginata. Jamaica

dry S. floribunda. Martinique.

cult. Octomeria graminifolia. Caribbee Is.

non. O. Baueri. W. Ind.

dry Lepanthes bidentata. W. Ind. [as the next]

dry L. pulchella. Jamaica. On trees among mosses in highest mountains. flowering in July & August.

Lepanthes concinna. Jamaica. Blue mountains

L. cochlearifolia. Jamaica s. On trees,

[illegible] covered with moss, on the

Bletia in Boragnas [illegible] ountains, flowering at the

[illegible] of the year.

Epid. which . Jamaica. Trees m.t.n woods.

Oncid. [illegible] naica. Lofty mountains; on

Pleurothl. not. [illegible] ides of rocks.

[illegible] Jamaica.

Onc. tigrinum Caribbees.

[illegible] pulchellum Lindl

Helia in Bocagnas

Epid. which
Oneid.
Pleurodt. not.

Occ. hijuctrum
pulchellum Spreng

dry Lepanthes concinna. Jamaica - Blue mountains

dry L. cochlearifolia. Jamaica &c. On trunks, & on rocks covered with moss, on the highest mountains, flowering at the last months of the year.

without flowers.

cult. Stelis ophioglossoides. Jamaica. trees mt.ns woods.

cult. S. micrantha. Jamaica. lofty mountains; on trees & at sides of rocks.

cult. Celia Bauerana. Jamaica.

cult. Polystachia luteola. Caribbees.

Nymphalis.

1. Victorina Syrichtus. Jamaica. RR.
3. Heliconia Clytemnestra "
4. } Nymphalis Cadma "
5. }
6. } Thecla Pan. " C.
7. }
8 Heliconia Irene "
9. Nymphalis Ate "
10 Hesperochia. Andromeda "
11 Colenomia Sappho "
12 } Cystineura. Mardania "
13 }
14 } Hesperochia. Agricola "
15 }
16 } Hesperochia Xanthicles. Cuba — rare.
17 }
18 Lamia Chrysofulva. Cuba — RR.
19 } Charaxes Clytiodia. Cuba — rare.
20 }
21 } Papilio Telea — Jamaica RR
22 }
23 } Charaxes Cadmus. " R.
24 }
25 Urania Leanus. " probably
2 species. worth 2/. or 3/. for 20.
26 } Euphæsa Eckeyi " C.
27 }
28 Danais Berenice " C.
29 } Papilio. Nireus. " C.
30 }
31. Papilio. Leosthenes. " R. Thro.
Near Lititz, in Lancaster, or Dauphin counties

32.	Lycæna Cincta.	W. Ind.	R.
33	Thecla Hyacinthus.	"	non.
34.	Thecla Isaachus.	"	rare
35 36	Thecla Ganymedes.	"	non.
37	Lycæna Perlata	"	R.
38 39	Thecla Theseus.	"	non
40	Castnia Icarus.	"	non
41 42	Lycæna Carna.	East Ind.?	
43 44	Thecla Cyanus.	W. Indies.	non
45	Lycæna Cistus	"	R
46	Lycæna Proxis.	"	non
47	Lycæna Nyseus	"	non
48	Eurema Mexicana	"	
49	Hipparchia Tolumnia	"	
50	Lycæna Helius	"	
51	Bellia Thadeus	"	Com.
52	Charaxes Astinax	"	R.
53.	Nymphalis Selina. Spice? R. Lives on Orange.		
54.	Nymphalis Hesione. W. Ind. R. Caterpillar & Chrysalis found on Cactus Grandiflorus.		
55 56	Nymphalis Charithonia. Cuba.		non
57	Papilio Pelaus. Jamaica.		RR.
58	Castnia Pyletes.	W. Indies.	non.

58 Cactus Plantæ.

57 } male.
i }
60 } ♂
61 } female. beneath brownish. Agreeing very nearly with the species, pentagonus &c. Roxb.

Opuntia Fernandesiana (or Plumosa?) of Cultivation? Whitish, pale green, or flesh-colour; head red; neck, black-spots. Grows a thin mat on leaves of the Cob- or Hog-nose; not at present.

Figs on young leaves in February, N.S.
Ripe in May near three months. Collected.

Miscellaneous Descriptions.

J.O. Westwood's note on Insects.

Minute species of all orders.

Seek under bark, dung, rejectamenta of tide, beating, sweeping grass, &c.

Minute spe. either in spirits, or brimstone & lay between cotton.

♂ & ♀ when taken in copula, stick on one pin.

Note habits, — abundance or rarity; active or slow; diurnal or nocturnal; position of limbs in repose; metamorphoses.

Habits of obnoxious species, or beneficial of various bees, wasps, sphexes, &c. whether social or solitary; nest makers or parasites.

determine their sexes.

sexes of duals &c. & of Hermaphrodites.

No of larvæ in each the States.

Miscellaneous illustrating habits to be preserved.

Preserve nests, face, eggs, larvæ, pupæ of all states.

Species attacking Cattle, &c. Chigoes. Sexes & habits & their habitands & parasites.

Parasites of all Kinds, & their destinies.

Focus ♀ & ♂.

Nests of spiders.

House flies — Qu? Identical with England.

Parasites on fishes, (Lernæa) in weak spirit.

Preserve monstrous specimens, Hermaphrodites

Recipes, &c.

Soaby's Pickle. 2 g. Alum
4 " Salt
4 ozs. Cor. Sul. } in 2 qts. boil. water.

for Molluscea; but not such as have lime as shell, a crust or echinoderm.

Tincture of Rhubarb.

2 g. Rhubarb
½ " Cardamoms. } 1 P. Alcohol

Chalk alum in pastes prevents insects from eating it.

1 The Ruby-topaz. Ornismya moschita
. very common.

Fem. Crown, upper parts & mid feat.s of tail
golden green: throat, breast, belly, white.
tail f.rs white tips. outer webs of all
tail f.rs except middle, rusty red.

Very young- Green above- white beneath.

very young fem. D.o D.o Ears f.rs buff. belly
tips. flanks white. tips of tail buff.

Young approaching adult. green above, white
beneath. rusty brown patch on throat. —
tail brown violet. Ruby spots behind eye.

2. O. Furcata. Jamaica to Brazil. —
fem. young unknown: perhaps scarce
or differing.

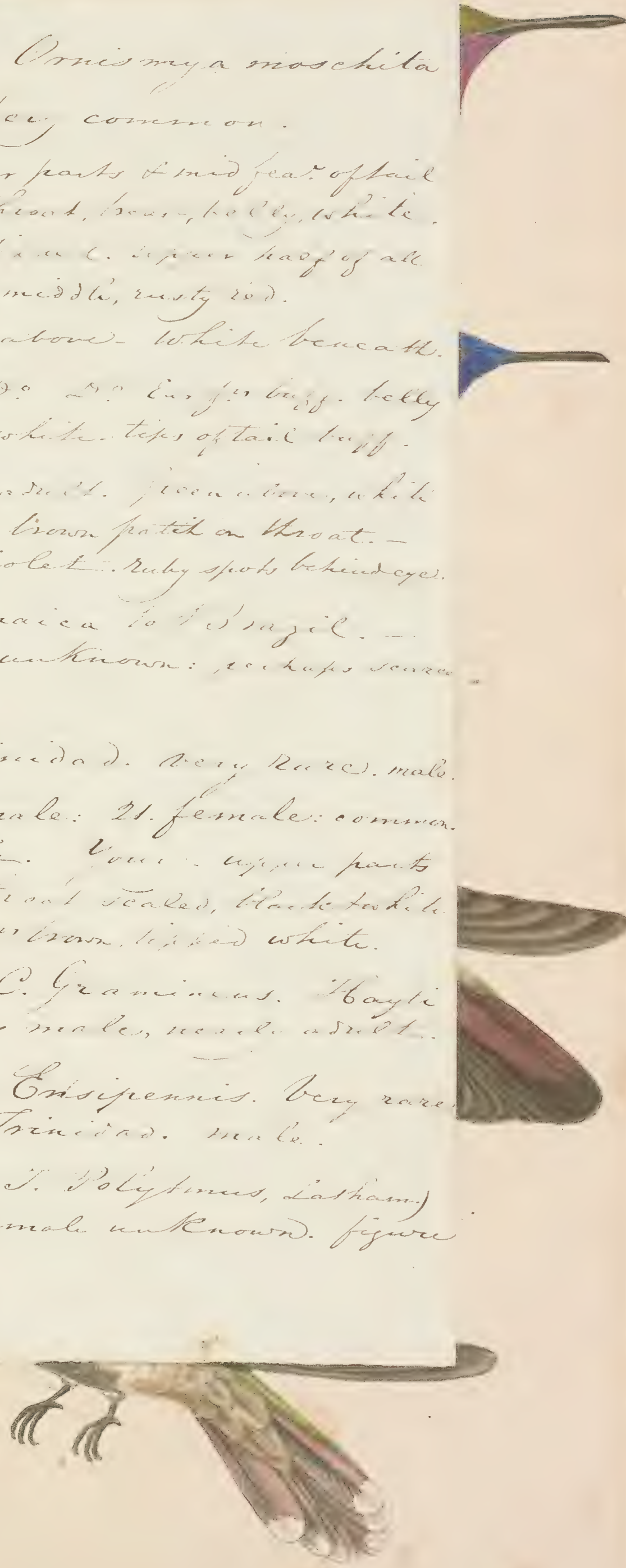
3. O. Cenone. Trinidad. very Rare. male.

4. The Jacobine. male: 21. female: common
Martinique, &c. Crown. upper parts
golden green. throat scaled, black to belly
(in fem.) tail f.rs brown, tipped white.

5. The Haytian. O. Gramineus. Hayti
6. D.o Young males, nearly adult.

7. Campylopterus Cassipennis. very rare
Jamaica & Trinidad. male.

8. O. Cephalotra. T. Polytmus, Latham.)
Jamaica. female unknown. figure
too small.



mone
ellivora. m.
bris Gramineus. m
" —— young.

1 The Ruby-topaz. Ornismya moschita
- very common.

Fem. Crown, upper parts & mid feat. of tail golden green: throat, breast, belly, white. tail fs white tipped. upper half of all tail fs except middle, rusty red.

Very young - Green above - white beneath.

Very young fem. Do Do Ear fs buff. belly buff. flanks white. tips of tail buff.

Young approaching adult. Green above, white beneath. rusty brown patch on throat. - tail brown variegated. Ruby spots behind eye.

2. O. Furcata. Jamaica to Brazil. -
fem. & young unknown: perhaps scarcely differing.

3. O. Cenone. Trinidad. very Rare. male.

4. The Jacobine. male: 21. female: common Martinique, &c. Young: - upper parts golden green. throat scaled, black & white (as fem.) tail fs brown, tipped white.

5. The Haytian. C. Graminicus. Hayti
6. Do Young male, nearly adult.

7. Campylopterus Ensipennis. very rare Jamaica & Trinidad. male.

8. C. Cephalotus. (T. Polytmus, Latham.) Jamaica. female unknown. figure too small.

9. C. Mango. Jamaica. Brazil.? — Young green above; white beneath breast & throat blackish

10. C. Hirsutus. Brazil, rare.

11. O. Mangei, male

12. " — fem. — Porto Rico

13. O. Minima. S.t Domingo. "Unquestionably the smallest sp." Less. — male a little larger: no white at the tip of the tail. young similar.

14. C. Viridis. Porto Rico.

15. C. Ringii (T. Forficatus, Latham.) Jamaica. (Colombia, Doubleday) Plumage highly metallic; feathers too diverging. Crest emerald, & sapphire "A rare & precious bird."

16. C. Holosericeus. The Carib. male. St. Thomas; Porto Rico; Martinico. Female like male. Young wants the blue on thorax.

17. C. Aurulentus. male. Porto Rico

18. — " — female. (certain.) Young male. Orange, rump deeply notched below with white: breast & belly blotched with sooty brown. tail nearly as female; but purple for brown. Young female. Green above; white beneath: tail blue tipped with white

19. *O. Cristata.* male. Trinidad, and

20. —— " —— female. Martinico.
St Domingo: common. 'Visits mud
in winter at Mart.'

21. *O. Mellivora.* female. (see 4.)

22. *O. Bicolor.* male. Guadaloupe
Martinique? Guiana.
Female like male, except that the
gorge, throat, & breast are blotched
with white, then with white & gold-green
belly grey: inferior tail cov^ts green.
Young male. no blue gorge. colours
less rich: back brassy.

23. *O. Superba.* The Corinne. Tri-
nidad. 'Young wants the crest.
forehead blue: yellow border wanting
grey here & th the wings. inf^r tail cov^ts
tipped with white.
Very young. gorge green bordered white.
no blue on fore head.

1 Ornismya Móschita
2 O. Furcata
3 O. Oenone
4 O. Mellivora. m.
5 Colibris Gramineus. m
6 —— ——— young.

7 Campylopterus Ensipennis
8 C. Cephalatra
9 Col. Mango
10 C. Hirsutus

11 O. Mangei. m.
12 — " — f.
13 O. Minima. f.
14 C. Viridis
15 O. Kingii
16 C. Holosericeus

17 C. Aurulentus. m.
18 — " — — f.
19 O. Cristata. m.
20 — " — f.

22. O. Bicolor.
21. ~~22~~ O. Mellivora. f.
23 O. Superba.